

TECHNICAL UNIVERSITY OF DENMARK

Project Agreement

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Title (English)	Sharing Files Across Devices Using The Private Cloud
Title (Danish)	Fildeling På Tværs af Enheder Ved Brug af Den Private Sky
ECTS Points	32.5
Student Number	s103446
Start date	4/1-2016 (<i>dispensation has been given</i>)

1 Abstract of Project

Over the past few years, privacy on the internet has become a growing issue. From governments spying on their citizens, to large corporations leaking information, more and more people are beginning to have a mistrust for the cloud.

In this project, the feasibility of running a private file synchronization service on a device consuming as little power as possible will be investigated. The end result, would be a service somewhat similar to that of Dropbox, but kept in the Private Cloud: None of the files ever leave your devices, and are kept *yours*.

The goal of the project is to implement a feature rich server-application, handling storage, synchronization, fileversioning, off-site backups, public share links and all around primary logic of the system. The implementation of the system, for this project, will be separated into two sub-systems: The server and a client. The server will be developed running on a Unix system, due to affordability and availability of low-powered devices, running a Unix core. A client will also be developed. Due to its mainstream use, the client will be developed for Windows.